

Applicant : Keith Nugent et al.  
Serial No. : 09/830,393  
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Attorney's Docket No.: 13113-002001 / FP14339

Amendments to the Specification:

Please amend page 3, line 9 as follows:

Please delete ~~Disclosure of the Invention~~ and insert SUMMARY OF THE INVENTION

Please insert at page 15, line 12 the following section heading:

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

Please insert at page 16, line 8 the following section heading:

DETAILED DESCRIPTION OF THE INVENTION

Please add the following new abstract:

A method of quantitative determination of the phase of a radiation wave field including the steps of producing a representative measure of the rate of change of intensity of the radiation wave field over a selected surface extending generally across the wave field; producing a representative measure of intensity of the radiation wave field over the selected surface; transforming the measure of rate of change of intensity to produce a first integral transform representation and applying to the first integral transform representation a first filter corresponding to the inversion of a first differential operator reflected in the measure of rate of change of intensity to produce a first modified integral transform representation; applying an inverse of the first integral transform to the first modified integral transform representation to produce an untransformed representation; applying a correction based on the measure of intensity over the selected surface to the untransformed representation; transforming the corrected untransformed representation to produce a second integral transform representation and applying to the second integral transform representation a second filter corresponding to the inversion of a second differential operator reflected in the corrected untransformed representation to produce a second modified integral transform representation; and applying an inverse of the second integral transform to the second modified integral transform representation to produce a measure of phase of the radiation wave field across the selected plane.